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The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A rotor motor comprising;

a rotor core having a rotor surface; (2)(12)(32)(42) in which multiple

<u>a plurality of permanent magnets (3)(13)(14)(33)(43)(44) are embedded in the rotor</u>

core with each of the permanent magnets having a pair of poles, wherein

a peripheral direction edge section of each of the permanent magnets

(3)(13)(14)(33)(43)(44) or a plurality of first non-magnetic layers with one of the first non-magnetic layers being located between each adjacent pairs of the permanent magnets along the rotor surface and being (4)(34) continuous or adjacent to the a peripheral direction edge section of each of the permanent magnets (3)(13)(14)(33)(43)(44) elongates in the a vicinity of between the poles and to the a vicinity of the rotor surface; and

a <u>plurality of second non-magnetic layers</u> with one of the second non-magnetic layers being located (5)(35) is provided in the <u>a</u> vicinity of the surface of the rotor <u>surface</u> at the <u>a</u> pole center side position with respect to the peripheral direction edge section of each <u>of the</u> permanent magnets (3)(13)(14)(33)(43)(44) or <u>the first</u> non-magnetic layers, <u>eontinuous or</u> adjacent to the peripheral direction edge section of each permanent magnet (3)(13)(14)(33)(43)(44), and wherein

the <u>first</u> non-magnetic layers (4)(34) continuous or adjacent to the peripheral direction edge section of each permanent magnet and the second non-magnetic layers (5)(35) are being positioned to cancel n-th order harmonics (where n is an odd number and is equal to or greater than 3) of the an induction voltage.

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2. (Currently Amended) The rotor A motor as set forth in claim 1, wherein the n-th order harmonics is an odd number numbered order harmonics, the odd number being equal to or greater than 3 and other than multiples of 3.

- 3. (Currently Amended) The rotor A motor as set forth in claim 2 1, wherein the n-th order harmonics is an odd number numbered order harmonics, the odd number being equal to or greater than 13 and other than multiples of 3.
- 4. (Currently Amended) <u>The rotor A motor</u> as set forth in claim 2, wherein the n-th order harmonics is 5-th order harmonics or 7-th order harmonics.
- 5. (Currently Amended) The rotor A motor as set forth in claim 4, wherein the peripheral direction edge section of each of the permanent magnets (3)(33) or the first non-magnetic layers (4)(34) continuous or adjacent to the peripheral direction edge section of each permanent magnet and the second non-magnetic layers (5)(35) are made to be independent from one another, and the rotor core (2a)(32a) are is interposed between them.
- 6. (Currently Amended) The rotor A motor as set forth in claim 4 or claim 5, wherein

an angle θ 1 between the peripheral direction edge section of each of the permanent magnets (3) or the a pole center side edge section of the rotor surface adjacent section of each of the first non-magnetic layers (4) continuous or adjacent to the peripheral direction edge section of each permanent magnet (3) and between the poles, and an angle θ 2 between the pole center side edge section of the rotor surface adjacent section each of the second non-magnetic layers (5) and the between poles, are determined to be

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$$0 < \theta \ 1 < 180/(5 \cdot Pn)$$
 and $180/(5 \cdot Pn) \le \theta \ 2 \le 180 \times 2/(5 \cdot Pn)$ or $0 < \theta \ 1 < 180/(7 \cdot Pn)$ and $180/(7 \cdot Pn) \le \theta \ 2 \le 180 \times 2/(7 \cdot Pn)$ where a pole pair number is Pn.

7. (Currently Amended) The rotor A motor as set forth in claim 4 or claim 5 6, wherein

the angle θ 1 is $0 < \theta$ 1 < 180/(5 • Pn) or $0 < \theta$ 1 < 180/(7 • Pn), the angle θ 2 is the minimum value of 180/(5 • Pn) $\leq \theta$ 2 \leq 180×2/(5 • Pn) or the minimum value of 180/(7 • Pn) $\leq \theta$ 2 \leq 180×2/(7 • Pn).

8. (Currently Amended) The rotor A motor as set forth in claim 4 or claim 5, wherein

an angle θ 5 between the peripheral direction edge section of each of the permanent magnets (33) or the a pole center side edge section of the rotor surface adjacent section each of the first non-magnetic layers (34) continuous or adjacent to the peripheral direction edge section of each permanent magnet (33) and the between the poles, and an angle θ 6 between the pole center side edge section of the rotor surface adjacent section each of the second non-magnetic layers (35) and the between poles, are determined to be

$$0 < \theta \ 5 < 180/(5 \cdot Pn) \text{ and } 180/(5 \cdot Pn) \le \theta \ 6 \le 180 \times 2/(5 \cdot Pn)$$

where a pole pair number is Pn, and

the <u>a</u> rotor core section width has points of inflection, the rotor core section width being sandwiched by the peripheral direction edge section of each of the permanent magnets

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(33) or the first non-magnetic layers (34) continuous or adjacent to the peripheral direction edge section of each permanent magnet (33) and the second non-magnetic layers (35) and the rotor surface,

angles θ 7 and θ 8 between the respective points of inflection and the between poles are determined to be

$$0 < \theta$$
 7 < 180/(7 • Pn) and 180/(7 • Pn) $\leq \theta$ 8 \leq 180×2/(7 • Pn) where a pole pair number is Pn, and the a relationship of the angles θ 5, θ 6, θ 7 and θ 8 is determined to be θ 7 < θ 5 < θ 8 < θ 6.

9. (Currently Amended) The rotor A motor as set forth in claim 4 or claim 5 8, wherein

the angle θ 5 is $0 < \theta$ 5 < 180/(5 • Pn), the angle θ 7 is $0 < \theta$ 7 < 180/(7 • Pn), the angle θ 6 is the minimum value of 180/(5 • Pn) $\leq \theta$ 6 \leq 180×2/(5 • Pn), and the angle θ 8 is the minimum value of 180/(7 • Pn) $\leq \theta$ 8 \leq 180×2/(7 • Pn).

10. (Currently Amended) The rotor A motor as set forth in one of claim 1 through claim 4, wherein

each of the permanent magnets (13)(14)(43)(44) is divided into multiple layers in a radial direction.

11. (Currently Amended) The rotor A motor as set forth in claim 10, wherein each of the permanent magnets (13)(14) is divided into two layers in a radial direction, and an angle θ 3 between the peripheral direction edge section of the permanent magnet (13)

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in <u>an</u> inner side of the rotor or the <u>a</u> pole center side edge section of <u>a</u> rotor surface adjacent section <u>each</u> of <u>the first</u> non-magnetic layers continuous or adjacent to the peripheral direction edge section of each permanent magnet (13) and the between <u>the</u> poles, and an angle θ 4 between the peripheral direction edge section of <u>the</u> permanent magnet (14) in <u>an</u> outer side of the rotor or <u>the</u> pole center side edge section of the rotor surface adjacent section of <u>the first</u> non-magnetic layers continuous or adjacent to peripheral direction edge section of the permanent magnet (14) and the between the poles are determined to be

$$0 < \theta \ 3 < 180/(5 \cdot Pn)$$
 and $180/(5 \cdot Pn) \le \theta \ 4 \le 180 \times 2/(5 \cdot Pn)$ or
$$0 < \theta \ 3 < 180/(7 \cdot Pn) \text{ and } 180/(7 \cdot Pn) \le \theta \ 4 \le 180 \times 2/(7 \cdot Pn)$$
 where a pole pair number is Pn.

- 12. (Currently Amended) The rotor A motor as set forth in claim 11, wherein the angle θ 3 is $0 < \theta$ 3 < 180/(5 Pn) or $0 < \theta$ 3 < 180/(7 Pn), and the angle θ 4 is the minimum value of 180/(5 Pn) $\leq \theta$ 4 \leq 180×2/(5 Pn) or the minimum value of 180/(7 Pn) $\leq \theta$ 4 \leq 180×2/(7 Pn).
- 13. (Currently Amended) The rotor A motor as set forth in claim 10, wherein each of the permanent magnets (43)(44) is divided into two layers in a radial direction, and an angle θ 9 between the a pole center side edge section of the rotor surface adjacent section each of the permanent magnets (43) in an inner side of the rotor and the between the poles, and an angle θ 10 between the pole center side edge section of the rotor surface

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adjacent section each of the permanent magnets (44) in an outer side of the rotor and the between the poles are determined to be

$$0 < \theta$$
 9 < 180/(5 • Pn) and 180/(5 • Pn) $\leq \theta$ 10 \leq 180×2/(5 • Pn) where a pole pair number is Pn,

and the <u>a</u> rotor core section width has points of inflection, the rotor core section width being sandwiched by the peripheral <u>direction</u> edge sections of <u>the</u> permanent magnets (43) on <u>the</u> inner side of the rotor or <u>the first</u> non-magnetic layers <u>eontinuous or adjacent to the</u> <u>peripheral direction edge section of permanent magnet (43)</u> and the peripheral <u>direction</u> edge sections of <u>the</u> permanent magnets (44) on <u>the</u> outer side of the rotor or <u>the first</u> non-magnetic layers <u>eontinuous or adjacent to the peripheral direction edge section of permanent magnet</u> (44), and

angles θ 11 and θ 12 between the respective points of inflection and the between poles are determined to be

$$0 < \theta$$
 11 < 180/(7 • Pn) and 180/(7 • Pn) $\leq \theta$ 12 \leq 180×2/(7 • Pn) where a pole pair number is Pn, and a relationship of the angles θ 9, θ 10, θ 11 and θ 12 is determined to be θ 11 < θ 9 < θ 12 < θ 10.

14. (Currently Amended) The rotor A motor as set forth in claim 13, wherein the angle θ 9 is $0 < \theta$ 9 < 180/(5 • Pn), the angle θ 11 is $0 < \theta$ 11 < 180/(7 • Pn), the angle θ 10 is the minimum value of 180/(5 • Pn) $\leq \theta$ 10 \leq 180×2/(5 • Pn), and the angle θ 12 is the minimum value of 180/(7 • Pn) $\leq \theta$ 12 \leq 180×2/(7 • Pn).

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15. (New) The rotor as set forth in claim 5, wherein

an angle θ 1 between the peripheral edge section of each of the permanent magnets or a pole center side edge section of the rotor surface adjacent each of the first non-magnetic layers and the poles, and an angle θ 2 between the pole center side edge section of the rotor surface adjacent each of the second non-magnetic layers and the poles, are determined to be

$$0 < \theta \ 1 < 180/(5 \cdot Pn)$$
 and $180/(5 \cdot Pn) \le \theta \ 2 \le 180 \times 2/(5 \cdot Pn)$

or

$$0 < \theta \ 1 < 180/(7 \cdot Pn) \text{ and } 180/(7 \cdot Pn) \le \theta \ 2 \le 180 \times 2/(7 \cdot Pn)$$

where a pole pair number is Pn.

16. (New) The rotor as set forth in claim 15, wherein

the angle θ 1 is $0 < \theta$ 1 < 180/(5 • Pn) or $0 < \theta$ 1 < 180/(7 • Pn), the angle θ 2 is the minimum value of 180/(5 • Pn) $\leq \theta$ 2 \leq 180×2/(5 • Pn) or the minimum value of 180/(7 • Pn) $\leq \theta$ 2 \leq 180×2/(7 • Pn).

17. (New) The rotor as set forth in claim 5, wherein

an angle θ 5 between the peripheral edge section of each of the permanent magnets or a pole center side edge section of the rotor surface adjacent each of the first non-magnetic layers and the poles, and an angle θ 6 between the pole center side edge section of the rotor surface adjacent each of the second non-magnetic layers and the poles, are determined to be

$$0 < \theta \ 5 < 180/(5 \cdot Pn) \text{ and } 180/(5 \cdot Pn) \le \theta \ 6 \le 180 \times 2/(5 \cdot Pn)$$

where a pole pair number is Pn,

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a rotor core section width has points of inflection, the rotor core section width being sandwiched by the peripheral edge section of each of the permanent magnets or each of the first non-magnetic layers and the second non-magnetic layers and the rotor surface,

angles θ 7 and θ 8 between respective points of inflection and between poles are determined to be

$$0 < \theta$$
 7 < 180/(7 • Pn) and 180/(7 • Pn) $\leq \theta$ 8 \leq 180 × 2/(7 • Pn) where a pole pair number is Pn, and a relationship of the angles θ 5, θ 6, θ 7 and θ 8 is determined to be θ 7 < θ 5 < θ 8 < θ 6.

18. (New) The rotor as set forth in claim 17, wherein

the angle θ 5 is $0 < \theta$ 5 < 180/(5 • Pn), the angle θ 7 is $0 < \theta$ 7 < 180/(7 • Pn), the angle θ 6 is the minimum value of 180/(5 • Pn) $\leq \theta$ 6 \leq 180×2/(5 • Pn), and the angle θ 8 is the minimum value of 180/(7 • Pn) $\leq \theta$ 8 \leq 180×2/(7 • Pn).

- 19. (New) The rotor as set forth in claim 2 wherein each of the permanent magnets is divided into multiple layers in a radial direction.
- 20. (New) The rotor as set forth in claim 19, wherein

each of the permanent magnets is divided into two layers in a radial direction, and an angle θ 3 between the peripheral edge section of the permanent magnet in an inner side of the rotor or a pole center side edge section of the rotor surface adjacent each of the first non-magnetic layers and the poles, and an angle θ 4 between the peripheral edge section of the

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permanent magnet in an outer side of the rotor or the pole center side edge section of the rotor surface adjacent each of the first non-magnetic layers and the poles are determined to be

$$0 < \theta \ 3 < 180/(5 \cdot Pn) \ and \ 180/(5 \cdot Pn) \le \theta \ 4 \le 180 \times 2/(5 \cdot Pn)$$

or

$$0 < \theta \ 3 < 180/(7 \cdot Pn) \text{ and } 180/(7 \cdot Pn) \le \theta \ 4 \le 180 \times 2/(7 \cdot Pn)$$

where a pole pair number is Pn.